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Capturing and playing multimedia events with STREAMS

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↑ **ABSTRACT**

STREAMS is a prototype application designed and implemented at Bellcore to support the recording and playback of technical presentations, training sessions, and meetings. During playback STREAMS lets users make choices about how the recorded information is to be presented. To further aid users, STREAMS incorporates powerful searching techniques for locating information in audio and video streams. Key features of STREAMS include storing information as separate, single-medium streams correlated with each other by time, and using digital storage to allow rapid search and random access. We describe our capture techniques, prototype STREAMS playback system and report initial results.

↑ **REFERENCES**

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1   C. Allen, The use of video in organizational studies, ACM SIGCHI Bulletin, v.21 n.2, p.115-117, Oct. 1989

2   Elliot, E.L., Watch-Grab-Arrange-See: Thinking with Motion Images via Streams and Collages. MIT MS Visual Studies Thesis, February 1993.

3   S. Kennedy, Using video in the BNR usability lab, ACM SIGCHI Bulletin, v.21 n.2, p.92-95, Oct. 1989

4   Microfield Graphics, Inc., "SoftBoard." Microfield Graphics, Inc., 9825 SW Sunshine Court, Beaverton, OR 97005.

5   Rob Phillips, Producing interactive multimedia computer-based learning projects, ACM SIGGRAPH Computer Graphics, v.28 n.1, p.20-24, Feb. 1994

6   Rose, R.C. and Reynolds, D.A., Text Independent Speaker Identification Using Automatic Acoustic Segmentation. Proceedings of 1990 IEEE International Conference on Acoustics, Speech, and Signal Processing (Albuquerque, New Mexico, April 3-6, 1990) v. I, p 293-296.

7   Yu, G. and Gish, H., Identification of Speakers Engaged in Dialog. Proceextings of 1993 IEEE International Conference on Acoustics, Speech, and Signal Processing (Minneapolis, April 27-30, 1993) v. II, p 383-386.

↑ **CITINGS 15**

Thomas P. Moran , Leysia Palen , Steve Harrison , Patrick Chiu , Don Kimber , Scott Minneman , William van Melle , Polle Zellweger, "I'll get that off the audio": a case study of salvaging multimedia meeting records, Proceedings of the SIGCHI conference on Human factors in computing systems, p.202-209, March 22-27, 1997, Atlanta, Georgia, United States

Patrick Chiu , Ashutosh Kapuskar , Sarah Reitmeier , Lynn Wilcox, NoteLook: taking notes in meetings with digital video and ink, Proceedings of the seventh ACM international conference on Multimedia (Part 1), p.149-158, October 30-November 05, 1999, Orlando, Florida, United States

M. G. Brown , J. T. Foote , G. J. F. Jones , K. Sparck Jones , S. J. Young, Automatic content-based retrieval of broadcast news, Proceedings of the third ACM international conference on Multimedia, p.35-43, November 05-09, 1995, San Francisco, California, United States

Rune Hjelsvold , Stein Langørgen , Roger Midstraum , Olav Sandst□, Integrated video archive tools, Proceedings of the third ACM international conference on Multimedia, p.283-293, November 05-09, 1995, San Francisco, California, United States

Shingo Uchihashi, Improvising camera control for capturing meeting activities using a floor plan, Proceedings of the ninth ACM international conference on Multimedia, September 30-October 05, 2001, Ottawa, Canada

Scott Minneman , Steve Harrison , Bill Janssen , Gordon Kurtenbach , Thomas Moran , Ian Smith , Bill van Melle, A confederation of tools for capturing and accessing collaborative activity, Proceedings of the third ACM international conference on Multimedia, p.523-534, November 05-09, 1995, San Francisco, California, United States

Michael Gleicher , James Masanz, Towards virtual videography (poster session), Proceedings of the eighth ACM international conference on Multimedia, p.375-378, October 2000, Marina del Rey, California, United States

Andreas Girgensohn , John Boreczky , Patrick Chiu , John Doherty , Jonathan Foote , Gene Golovchinsky , Shingo Uchihashi , Lynn Wilcox, A semi-automatic approach to home video editing, Proceedings of the 13th annual ACM symposium on User interface software and technology, p.81-89, November 06-08, 2000, San Diego, California, United States

Wendy E. Mackay , Michel Beaudouin-Lafon, DIVA: exploratory data analysis with multimedia streams, Proceedings of the SIGCHI conference on Human factors in computing systems, p.416-423, April 18-23, 1998, Los Angeles, California, United States

Yong Rui , Liwei He , Anoop Gupta , Qiong Liu, Building an intelligent camera management system, Proceedings of the ninth ACM international conference on Multimedia, September 30-October 05, 2001, Ottawa, Canada

Khai N. Truong , Gregory D. Abowd , Jason A. Brotherton, Personalizing the capture of public experiences, Proceedings of the 12th annual ACM symposium on User interface software and technology, p.121-130, November 07-10, 1999, Asheville, North Carolina, United States

Thomas P. Moran , Patrick Chiu , Steve Harrison , Gordon Kurtenbach , Scott Minneman , William van Melle, Evolutionary engagement in an ongoing collaborative work process: a case study, Proceedings of the 1996 ACM conference on Computer supported cooperative work, p.150-159, November 16-20, 1996, Boston, Massachusetts, United States

Patrick Chiu , John Boreczky , Andreas Girgensohn , Don Kimber, LiteMinutes: an Internet-based system for multimedia meeting minutes, Proceedings of the tenth international conference on World Wide Web, p.140-149, May 01-05, 2001, Hong Kong, Hong Kong

Qiong Liu , Yong Rui , Anoop Gupta , J. J. Cadiz, Automating camera management for lecture room environments, Proceedings of the SIGCHI conference on Human factors in computing systems, p.442-449, March 2001, Seattle, Washington, United States

Sugata Mukhopadhyay , Brian Smith, Passive capture and structuring of lectures, Proceedings of the seventh ACM international conference on Multimedia (Part 1), p.477-487, October 30-November 05, 1999, Orlando, Florida, United States

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